

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P#

Luminaire Tested: **44ID-90-L930-CFR2**

Issue Date: 9/24/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (13890049.01)
Test Lab: INNOVATION CENTER
Issue Date: 9/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 44ID-90-L930-CFR2
Description: 9000 LUMEN 4X4 IN DEPTH LED LUMINAIRE, WITH RECESSED 2IN CUBE LENS
AND 3000K CCT, 90CRI LEDS
Light Source: -
Ballast/Driver:
Luminaire Equipment: Sample No. Condition Description

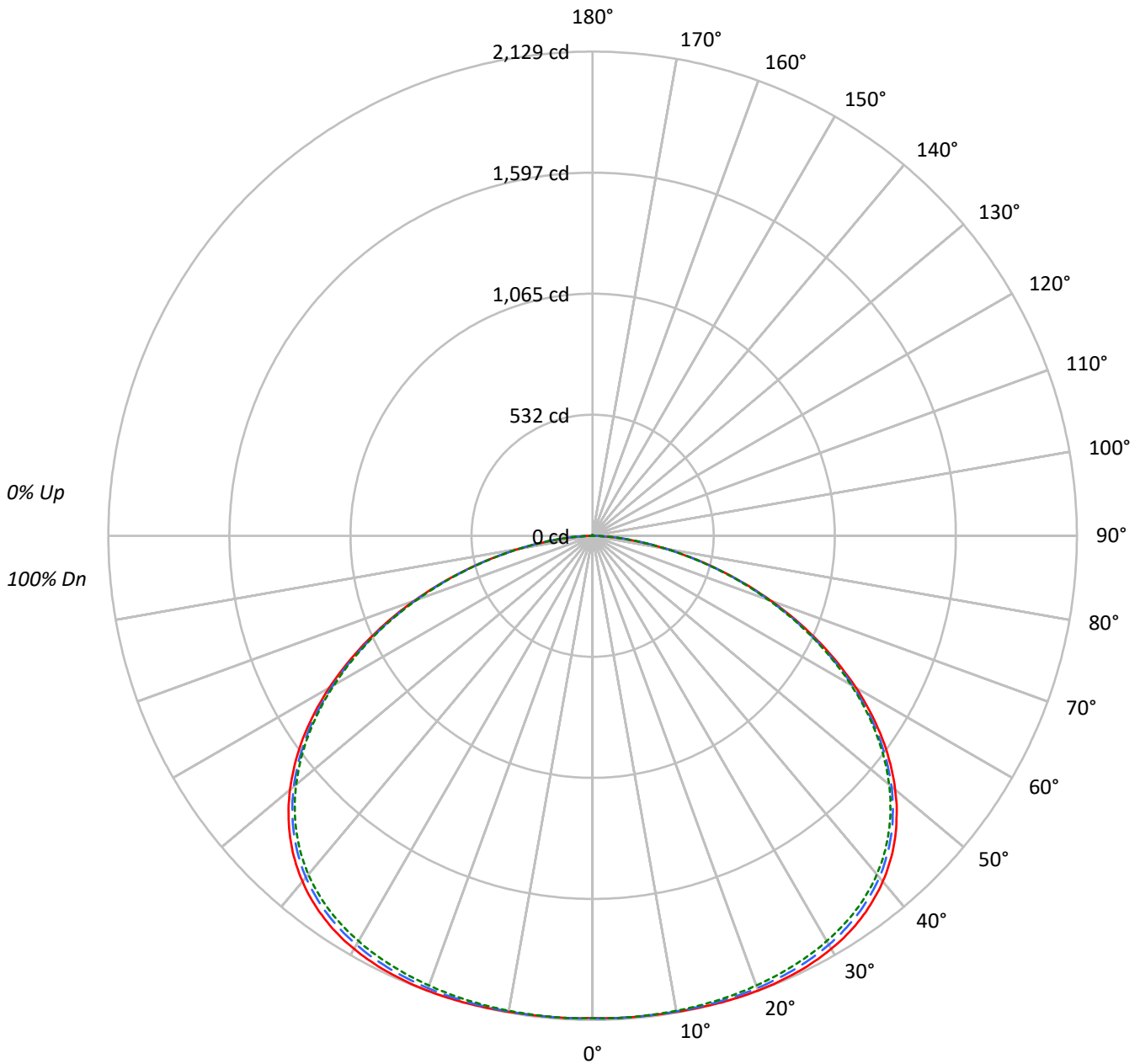
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7682.0 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.48 / 1.45 / 1.57
Luminous Opening: Rectangular (W 3.88' x L: 3.88' x H: 0')
CIE Type: Direct

Input Watts (W): 69.4
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P#
CATALOG NUMBER: 44ID-90-L930-CFR2

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 44ID-90-L930-CFR2

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | | | 0 | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | 100 |
| 1 | 108 | 103 | 99 | 95 | 105 | 101 | 97 | 93 | 97 | 93 | 90 | 93 | 90 | 87 | 89 | 87 | 85 | 82 | | | | 82 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 84 | 78 | 73 | 80 | 76 | 71 | 77 | 73 | 70 | 68 | | | | 68 |
| 3 | 89 | 78 | 69 | 62 | 86 | 76 | 68 | 62 | 73 | 66 | 60 | 70 | 64 | 59 | 67 | 63 | 58 | 56 | | | | 56 |
| 4 | 81 | 68 | 59 | 52 | 78 | 67 | 58 | 52 | 64 | 57 | 51 | 62 | 55 | 50 | 60 | 54 | 49 | 47 | | | | 47 |
| 5 | 74 | 61 | 51 | 44 | 72 | 59 | 51 | 44 | 57 | 49 | 43 | 55 | 48 | 43 | 53 | 47 | 42 | 40 | | | | 40 |
| 6 | 68 | 54 | 45 | 38 | 66 | 53 | 44 | 38 | 51 | 43 | 38 | 50 | 43 | 37 | 48 | 42 | 37 | 35 | | | | 35 |
| 7 | 63 | 49 | 40 | 33 | 61 | 48 | 39 | 33 | 46 | 39 | 33 | 45 | 38 | 33 | 43 | 37 | 32 | 30 | | | | 30 |
| 8 | 58 | 44 | 36 | 29 | 57 | 44 | 35 | 29 | 42 | 35 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 27 | | | | 27 |
| 9 | 54 | 41 | 32 | 26 | 53 | 40 | 32 | 26 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 24 | | | | 24 |
| 10 | 51 | 37 | 29 | 24 | 50 | 37 | 29 | 24 | 36 | 28 | 23 | 35 | 28 | 23 | 34 | 28 | 23 | 21 | | | | 21 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1515 | 1515 | 1515 |
| 5° | 1522 | 1522 | 1521 |
| 10° | 1541 | 1539 | 1537 |
| 15° | 1573 | 1569 | 1563 |
| 20° | 1617 | 1608 | 1599 |
| 25° | 1670 | 1656 | 1643 |
| 30° | 1729 | 1712 | 1696 |
| 35° | 1791 | 1770 | 1755 |
| 40° | 1849 | 1827 | 1812 |
| 45° | 1898 | 1874 | 1859 |
| 50° | 1929 | 1905 | 1890 |
| 55° | 1935 | 1911 | 1897 |
| 60° | 1909 | 1885 | 1874 |
| 65° | 1847 | 1826 | 1817 |
| 70° | 1741 | 1723 | 1714 |
| 75° | 1577 | 1567 | 1560 |
| 80° | 1342 | 1346 | 1332 |
| 85° | 999 | 1024 | 1022 |



TEST NUMBER: P#

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 202.7 | 2.6 |
| 10°-20° | 601.3 | 7.8 |
| 20°-30° | 972.0 | 12.7 |
| 30°-40° | 1273.2 | 16.6 |
| 40°-50° | 1432.1 | 18.6 |
| 50°-60° | 1370.4 | 17.8 |
| 60°-70° | 1068.8 | 13.9 |
| 70°-80° | 602.3 | 7.8 |
| 80°-90° | 149.0 | 1.9 |
| 90°-100° | 0.5 | 0.0 |
| 100°-110° | 0.9 | 0.0 |
| 110°-120° | 1.6 | 0.0 |
| 120°-130° | 2.4 | 0.0 |
| 130°-140° | 1.9 | 0.0 |
| 140°-150° | 1.2 | 0.0 |
| 150°-160° | 0.9 | 0.0 |
| 160°-170° | 0.6 | 0.0 |
| 170°-180° | 0.2 | 0.0 |
| 0°-30° | 1776.1 | 23.1 |
| 0°-40° | 3049.3 | 39.7 |
| 0°-60° | 5851.7 | 76.2 |
| 0°-90° | 7671.8 | 99.9 |
| 90°-120° | 3.0 | 0.0 |
| 90°-150° | 8.5 | 0.1 |
| 90°-180° | 10.0 | 0.1 |
| 0°-180° | 7682.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2122 | 2122 | 2122 | 2122 | 2122 | |
| 5° | 2124 | 2124 | 2124 | 2124 | 2123 | 203 |
| 15° | 2128 | 2128 | 2123 | 2118 | 2115 | 603 |
| 25° | 2120 | 2116 | 2103 | 2091 | 2086 | 980 |
| 35° | 2055 | 2049 | 2032 | 2019 | 2013 | 1287 |
| 45° | 1880 | 1872 | 1857 | 1848 | 1841 | 1448 |
| 55° | 1554 | 1546 | 1535 | 1528 | 1524 | 1386 |
| 65° | 1093 | 1089 | 1081 | 1078 | 1076 | 1079 |
| 75° | 572 | 572 | 568 | 567 | 566 | 606 |
| 85° | 122 | 124 | 125 | 126 | 125 | 141 |
| 90° | 1 | 1 | 1 | 1 | 1 | 6 |
| 95° | 0 | 0 | 0 | 0 | 0 | 0 |
| 105° | 1 | 1 | 1 | 1 | 1 | 1 |
| 115° | 2 | 2 | 2 | 2 | 2 | 2 |
| 125° | 3 | 3 | 3 | 3 | 3 | 2 |
| 135° | 3 | 2 | 2 | 2 | 3 | 2 |
| 145° | 2 | 2 | 2 | 2 | 2 | 1 |
| 155° | 2 | 2 | 2 | 2 | 2 | 1 |
| 165° | 2 | 2 | 2 | 2 | 2 | 1 |
| 175° | 2 | 2 | 2 | 2 | 2 | 0 |
| 180° | 2 | 2 | 2 | 2 | 2 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2121.5 | 2121.5 | 2121.5 | 2121.5 | 2121.5 |
| 0.5° | 2121.0 | 2122.6 | 2123.1 | 2122.6 | 2121.5 |
| 1° | 2121.5 | 2122.6 | 2123.1 | 2123.1 | 2122.1 |
| 1.5° | 2122.1 | 2123.1 | 2123.1 | 2123.1 | 2122.6 |
| 2° | 2122.1 | 2123.1 | 2123.1 | 2123.6 | 2122.6 |
| 2.5° | 2122.6 | 2123.6 | 2123.6 | 2123.6 | 2122.6 |
| 3° | 2123.1 | 2123.6 | 2123.6 | 2123.6 | 2123.1 |
| 3.5° | 2123.1 | 2123.6 | 2123.6 | 2123.6 | 2123.1 |
| 4° | 2123.6 | 2123.6 | 2123.6 | 2123.6 | 2123.1 |
| 4.5° | 2123.6 | 2124.1 | 2123.6 | 2123.6 | 2123.1 |
| 5° | 2123.6 | 2124.1 | 2123.6 | 2123.6 | 2123.1 |
| 5.5° | 2123.6 | 2124.1 | 2123.6 | 2123.6 | 2123.1 |
| 6° | 2124.1 | 2124.1 | 2123.6 | 2123.6 | 2122.6 |
| 6.5° | 2124.1 | 2124.6 | 2124.1 | 2123.6 | 2122.6 |
| 7° | 2124.1 | 2124.6 | 2123.6 | 2123.6 | 2122.6 |
| 7.5° | 2124.1 | 2124.6 | 2123.6 | 2123.1 | 2122.1 |
| 8° | 2124.6 | 2124.6 | 2124.1 | 2123.1 | 2122.1 |
| 8.5° | 2124.6 | 2125.2 | 2123.6 | 2123.1 | 2121.5 |
| 9° | 2125.2 | 2125.2 | 2124.1 | 2122.6 | 2121.5 |
| 9.5° | 2125.2 | 2125.7 | 2123.6 | 2122.6 | 2121.0 |
| 10° | 2125.7 | 2125.7 | 2123.6 | 2122.1 | 2120.5 |
| 10.5° | 2126.2 | 2126.2 | 2123.6 | 2122.1 | 2120.5 |
| 11° | 2126.2 | 2126.2 | 2123.6 | 2121.5 | 2120.0 |
| 11.5° | 2126.7 | 2126.7 | 2123.6 | 2121.0 | 2119.5 |
| 12° | 2126.7 | 2126.7 | 2123.6 | 2121.0 | 2119.0 |
| 12.5° | 2127.2 | 2126.7 | 2123.1 | 2120.5 | 2118.4 |
| 13° | 2127.2 | 2126.7 | 2123.1 | 2120.0 | 2117.9 |
| 13.5° | 2127.8 | 2127.2 | 2123.1 | 2119.5 | 2117.4 |
| 14° | 2127.8 | 2127.2 | 2123.1 | 2119.0 | 2116.4 |
| 14.5° | 2128.3 | 2127.2 | 2122.6 | 2118.4 | 2115.9 |
| 15° | 2128.3 | 2127.8 | 2122.6 | 2117.9 | 2115.3 |
| 15.5° | 2128.8 | 2127.8 | 2122.1 | 2116.9 | 2114.3 |
| 16° | 2128.3 | 2127.8 | 2121.5 | 2116.4 | 2113.3 |
| 16.5° | 2128.8 | 2127.8 | 2121.5 | 2115.3 | 2112.2 |
| 17° | 2128.8 | 2127.2 | 2121.0 | 2114.3 | 2111.7 |
| 17.5° | 2128.8 | 2127.2 | 2120.0 | 2113.8 | 2110.7 |
| 18° | 2128.8 | 2127.2 | 2119.5 | 2112.7 | 2109.1 |
| 18.5° | 2128.8 | 2126.7 | 2119.0 | 2111.7 | 2108.1 |
| 19° | 2128.3 | 2126.7 | 2118.4 | 2110.7 | 2107.1 |
| 19.5° | 2128.3 | 2126.2 | 2117.4 | 2109.1 | 2105.5 |
| 20° | 2127.8 | 2125.7 | 2116.4 | 2108.1 | 2104.5 |
| 20.5° | 2127.2 | 2125.2 | 2115.9 | 2107.1 | 2102.9 |
| 21° | 2127.2 | 2124.6 | 2114.8 | 2105.5 | 2101.4 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 22.5° | 2125.2 | 2122.1 | 2111.2 | 2100.8 | 2096.2 |
| 23° | 2124.1 | 2121.0 | 2109.6 | 2099.3 | 2094.6 |
| 23.5° | 2123.1 | 2120.0 | 2108.1 | 2097.2 | 2092.6 |
| 24° | 2122.1 | 2119.0 | 2106.5 | 2095.2 | 2090.5 |
| 24.5° | 2121.0 | 2117.4 | 2105.0 | 2093.1 | 2088.4 |
| 25° | 2119.5 | 2115.9 | 2102.9 | 2091.0 | 2086.4 |
| 25.5° | 2117.9 | 2114.3 | 2100.8 | 2088.9 | 2083.8 |
| 26° | 2116.4 | 2112.7 | 2098.8 | 2086.9 | 2081.7 |
| 26.5° | 2114.8 | 2110.7 | 2096.7 | 2084.3 | 2079.1 |
| 27° | 2112.7 | 2108.6 | 2094.1 | 2081.7 | 2076.5 |
| 27.5° | 2110.7 | 2106.5 | 2091.5 | 2079.1 | 2073.9 |
| 28° | 2108.6 | 2104.0 | 2088.9 | 2076.5 | 2071.4 |
| 28.5° | 2106.0 | 2101.4 | 2086.4 | 2073.4 | 2068.2 |
| 29° | 2103.4 | 2098.8 | 2083.3 | 2070.3 | 2065.1 |
| 29.5° | 2100.8 | 2095.7 | 2080.1 | 2067.2 | 2061.5 |
| 30° | 2097.7 | 2092.6 | 2076.5 | 2063.6 | 2057.9 |
| 30.5° | 2094.6 | 2089.5 | 2072.9 | 2060.0 | 2054.8 |
| 31° | 2091.0 | 2085.8 | 2069.3 | 2056.3 | 2050.7 |
| 31.5° | 2087.9 | 2082.2 | 2065.1 | 2052.7 | 2047.0 |
| 32° | 2083.8 | 2078.1 | 2061.5 | 2048.6 | 2042.9 |
| 32.5° | 2079.6 | 2073.9 | 2056.9 | 2043.9 | 2038.2 |
| 33° | 2075.5 | 2069.3 | 2052.2 | 2039.8 | 2033.6 |
| 33.5° | 2070.8 | 2064.6 | 2047.5 | 2035.1 | 2028.9 |
| 34° | 2065.7 | 2059.5 | 2042.4 | 2030.0 | 2024.3 |
| 34.5° | 2060.5 | 2054.3 | 2037.2 | 2024.8 | 2019.1 |
| 35° | 2055.3 | 2048.6 | 2031.5 | 2019.1 | 2013.4 |
| 35.5° | 2049.6 | 2042.9 | 2025.8 | 2013.4 | 2007.7 |
| 36° | 2043.9 | 2036.7 | 2019.6 | 2007.7 | 2001.5 |
| 36.5° | 2037.2 | 2030.5 | 2013.4 | 2001.5 | 1995.8 |
| 37° | 2030.5 | 2023.7 | 2006.7 | 1994.8 | 1989.1 |
| 37.5° | 2023.7 | 2016.5 | 1999.9 | 1988.0 | 1981.8 |
| 38° | 2016.5 | 2009.8 | 1992.7 | 1981.3 | 1975.1 |
| 38.5° | 2009.3 | 2002.0 | 1984.9 | 1973.6 | 1967.9 |
| 39° | 2001.5 | 1993.7 | 1977.2 | 1966.3 | 1960.1 |
| 39.5° | 1993.2 | 1985.5 | 1969.4 | 1958.0 | 1952.3 |
| 40° | 1984.4 | 1977.2 | 1960.6 | 1949.8 | 1944.1 |
| 40.5° | 1976.1 | 1968.4 | 1951.8 | 1941.5 | 1935.3 |
| 41° | 1966.8 | 1959.1 | 1943.0 | 1932.2 | 1925.9 |
| 41.5° | 1957.0 | 1949.2 | 1933.2 | 1922.8 | 1916.6 |
| 42° | 1947.2 | 1939.4 | 1923.4 | 1913.5 | 1906.8 |
| 42.5° | 1936.8 | 1929.1 | 1913.0 | 1903.2 | 1897.0 |
| 43° | 1926.5 | 1918.2 | 1902.7 | 1892.8 | 1886.6 |
| 43.5° | 1915.6 | 1907.3 | 1891.8 | 1882.0 | 1875.8 |



TEST NUMBER: P#

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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 45° | 1879.9 | 1871.6 | 1856.6 | 1847.8 | 1841.1 |
| 45.5° | 1867.5 | 1858.7 | 1844.2 | 1835.4 | 1829.2 |
| 46° | 1854.5 | 1845.7 | 1831.3 | 1822.5 | 1816.2 |
| 46.5° | 1841.1 | 1832.3 | 1818.3 | 1809.5 | 1803.3 |
| 47° | 1827.1 | 1818.8 | 1804.3 | 1796.6 | 1789.9 |
| 47.5° | 1813.1 | 1804.3 | 1790.4 | 1782.6 | 1775.9 |
| 48° | 1799.2 | 1789.9 | 1776.4 | 1768.1 | 1761.4 |
| 48.5° | 1784.2 | 1775.4 | 1761.9 | 1754.2 | 1747.9 |
| 49° | 1768.1 | 1759.8 | 1746.4 | 1738.1 | 1732.4 |
| 49.5° | 1752.6 | 1744.3 | 1730.9 | 1723.1 | 1716.9 |
| 50° | 1736.6 | 1727.8 | 1715.3 | 1707.6 | 1701.4 |
| 50.5° | 1720.0 | 1711.2 | 1698.8 | 1691.0 | 1685.3 |
| 51° | 1703.4 | 1694.6 | 1682.2 | 1674.5 | 1668.3 |
| 51.5° | 1685.9 | 1677.1 | 1664.6 | 1657.4 | 1651.7 |
| 52° | 1668.3 | 1659.5 | 1647.0 | 1640.3 | 1634.6 |
| 52.5° | 1650.7 | 1641.9 | 1629.5 | 1622.2 | 1617.0 |
| 53° | 1631.5 | 1623.2 | 1611.9 | 1605.1 | 1599.4 |
| 53.5° | 1612.4 | 1604.1 | 1592.7 | 1586.0 | 1580.8 |
| 54° | 1593.2 | 1584.9 | 1573.6 | 1566.8 | 1562.2 |
| 54.5° | 1574.6 | 1565.8 | 1554.9 | 1548.2 | 1543.6 |
| 55° | 1554.4 | 1546.1 | 1535.3 | 1528.5 | 1523.9 |
| 55.5° | 1534.2 | 1526.0 | 1515.1 | 1508.4 | 1504.2 |
| 56° | 1513.0 | 1505.3 | 1494.4 | 1488.7 | 1484.6 |
| 56.5° | 1491.8 | 1484.6 | 1473.7 | 1468.0 | 1463.9 |
| 57° | 1471.1 | 1463.3 | 1453.0 | 1447.8 | 1443.7 |
| 57.5° | 1450.4 | 1442.1 | 1431.8 | 1426.6 | 1422.5 |
| 58° | 1427.6 | 1419.9 | 1410.1 | 1404.9 | 1401.3 |
| 58.5° | 1405.4 | 1398.2 | 1387.8 | 1383.1 | 1379.5 |
| 59° | 1383.1 | 1375.9 | 1366.1 | 1361.4 | 1357.8 |
| 59.5° | 1359.9 | 1353.1 | 1343.3 | 1338.6 | 1335.0 |
| 60° | 1337.1 | 1329.8 | 1320.5 | 1316.4 | 1312.8 |
| 60.5° | 1313.8 | 1307.6 | 1297.8 | 1293.6 | 1290.0 |
| 61° | 1290.0 | 1283.8 | 1274.5 | 1270.3 | 1266.7 |
| 61.5° | 1265.7 | 1260.5 | 1251.2 | 1247.1 | 1243.9 |
| 62° | 1241.9 | 1236.7 | 1227.4 | 1223.8 | 1220.7 |
| 62.5° | 1217.6 | 1212.4 | 1203.1 | 1199.4 | 1196.3 |
| 63° | 1193.2 | 1188.1 | 1179.3 | 1175.6 | 1172.5 |
| 63.5° | 1168.4 | 1163.2 | 1154.9 | 1151.3 | 1148.2 |
| 64° | 1143.6 | 1138.4 | 1129.6 | 1127.0 | 1123.4 |
| 64.5° | 1118.7 | 1113.6 | 1104.8 | 1102.2 | 1099.1 |
| 65° | 1093.4 | 1089.2 | 1081.0 | 1077.8 | 1075.8 |
| 65.5° | 1068.5 | 1063.4 | 1055.6 | 1053.0 | 1049.9 |
| 66° | 1042.1 | 1038.0 | 1030.2 | 1027.7 | 1025.6 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 67.5° | 965.6 | 960.9 | 954.2 | 951.6 | 949.0 |
| 68° | 939.2 | 935.0 | 928.3 | 926.2 | 923.6 |
| 68.5° | 912.8 | 908.6 | 901.9 | 900.4 | 898.8 |
| 69° | 886.4 | 882.3 | 876.6 | 875.0 | 872.9 |
| 69.5° | 860.5 | 856.4 | 851.2 | 849.7 | 847.1 |
| 70° | 834.1 | 830.5 | 825.3 | 823.8 | 821.2 |
| 70.5° | 807.7 | 804.1 | 799.5 | 797.9 | 795.3 |
| 71° | 781.3 | 778.2 | 774.1 | 772.0 | 769.4 |
| 71.5° | 755.5 | 752.4 | 747.7 | 746.2 | 744.1 |
| 72° | 729.1 | 726.5 | 721.8 | 720.8 | 718.2 |
| 72.5° | 702.7 | 700.6 | 696.0 | 694.9 | 692.9 |
| 73° | 676.3 | 674.2 | 669.6 | 668.5 | 667.0 |
| 73.5° | 650.4 | 648.4 | 644.2 | 642.7 | 641.1 |
| 74° | 624.6 | 623.0 | 618.9 | 617.8 | 615.8 |
| 74.5° | 598.2 | 597.1 | 593.5 | 592.0 | 590.4 |
| 75° | 571.8 | 571.8 | 568.2 | 567.1 | 565.6 |
| 75.5° | 546.4 | 546.4 | 542.8 | 541.8 | 540.2 |
| 76° | 521.1 | 521.1 | 517.5 | 516.5 | 514.4 |
| 76.5° | 495.5 | 495.7 | 492.6 | 491.5 | 489.8 |
| 77° | 470.9 | 471.1 | 468.4 | 467.0 | 465.3 |
| 77.5° | 444.7 | 445.9 | 443.7 | 442.4 | 440.7 |
| 78° | 420.2 | 421.8 | 419.4 | 418.5 | 417.0 |
| 78.5° | 397.1 | 398.1 | 396.6 | 395.4 | 393.4 |
| 79° | 373.0 | 373.8 | 372.8 | 371.7 | 369.8 |
| 79.5° | 349.2 | 350.5 | 349.8 | 348.9 | 346.6 |
| 80° | 326.4 | 327.3 | 327.4 | 326.0 | 323.9 |
| 80.5° | 302.3 | 304.3 | 304.6 | 303.2 | 302.1 |
| 81° | 280.1 | 282.0 | 282.5 | 281.6 | 280.2 |
| 81.5° | 258.3 | 260.4 | 260.9 | 260.4 | 258.6 |
| 82° | 236.4 | 239.0 | 239.8 | 239.4 | 237.4 |
| 82.5° | 215.5 | 218.4 | 219.2 | 218.9 | 217.0 |
| 83° | 195.2 | 198.4 | 199.2 | 199.4 | 197.7 |
| 83.5° | 175.6 | 178.6 | 179.6 | 179.9 | 178.0 |
| 84° | 156.8 | 159.5 | 160.7 | 161.2 | 159.6 |
| 84.5° | 138.9 | 141.1 | 142.6 | 143.2 | 142.5 |
| 85° | 122.0 | 123.6 | 125.0 | 125.9 | 124.8 |
| 85.5° | 105.7 | 106.9 | 107.9 | 109.4 | 108.5 |
| 86° | 90.5 | 91.7 | 92.4 | 93.6 | 93.6 |
| 86.5° | 76.0 | 76.5 | 77.1 | 78.4 | 78.4 |
| 87° | 62.1 | 62.1 | 62.4 | 64.1 | 64.1 |
| 87.5° | 47.9 | 48.3 | 48.5 | 50.0 | 50.6 |
| 88° | 33.8 | 35.0 | 35.3 | 36.7 | 36.6 |
| 88.5° | 23.9 | 23.9 | 23.9 | 25.3 | 25.6 |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-90-L930-CFR2

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 90° | 1.1 | 1.1 | 1.1 | 1.2 | 1.1 |
| 90.5° | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 |
| 91° | 0.4 | 0.3 | 0.3 | 0.4 | 0.3 |
| 91.5° | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 |
| 92° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 92.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 93° | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 |
| 93.5° | 0.5 | 0.4 | 0.4 | 0.4 | 0.5 |
| 94° | 0.5 | 0.4 | 0.5 | 0.4 | 0.5 |
| 94.5° | 0.5 | 0.5 | 0.4 | 0.5 | 0.5 |
| 95° | 0.5 | 0.4 | 0.5 | 0.4 | 0.5 |
| 95.5° | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 |
| 96° | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 |
| 96.5° | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 |
| 97° | 0.6 | 0.5 | 0.6 | 0.5 | 0.6 |
| 97.5° | 0.6 | 0.5 | 0.5 | 0.5 | 0.6 |
| 98° | 0.7 | 0.6 | 0.6 | 0.6 | 0.7 |
| 98.5° | 0.7 | 0.6 | 0.5 | 0.5 | 0.6 |
| 99° | 0.6 | 0.6 | 0.6 | 0.5 | 0.6 |
| 99.5° | 0.7 | 0.5 | 0.6 | 0.6 | 0.6 |
| 100° | 0.7 | 0.6 | 0.6 | 0.6 | 0.7 |
| 100.5° | 0.7 | 0.7 | 0.6 | 0.7 | 0.7 |
| 101° | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 |
| 101.5° | 0.8 | 0.6 | 0.7 | 0.7 | 0.7 |
| 102° | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 |
| 102.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 103° | 0.7 | 0.6 | 0.7 | 0.7 | 0.7 |
| 103.5° | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 |
| 104° | 0.9 | 0.8 | 0.8 | 0.7 | 0.7 |
| 104.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.7 |
| 105° | 0.9 | 0.8 | 0.8 | 0.9 | 0.9 |
| 105.5° | 0.9 | 0.7 | 0.8 | 0.8 | 0.8 |
| 106° | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 |
| 106.5° | 0.9 | 0.8 | 0.9 | 0.8 | 0.8 |
| 107° | 0.9 | 0.9 | 0.9 | 0.9 | 0.8 |
| 107.5° | 1.0 | 0.9 | 0.9 | 1.0 | 0.9 |
| 108° | 1.0 | 0.9 | 0.8 | 1.0 | 0.9 |
| 108.5° | 1.0 | 1.0 | 1.0 | 0.9 | 0.9 |
| 109° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 109.5° | 1.1 | 0.9 | 1.1 | 1.0 | 0.9 |
| 110° | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 |
| 110.5° | 1.1 | 1.0 | 1.1 | 1.1 | 1.1 |
| 111° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-90-L930-CFR2

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 112.5° | 1.2 | 1.3 | 1.3 | 1.3 | 1.2 |
| 113° | 1.4 | 1.2 | 1.2 | 1.3 | 1.3 |
| 113.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 114° | 1.4 | 1.4 | 1.5 | 1.5 | 1.4 |
| 114.5° | 1.6 | 1.6 | 1.5 | 1.5 | 1.4 |
| 115° | 1.6 | 1.6 | 1.5 | 1.6 | 1.5 |
| 115.5° | 1.7 | 1.6 | 1.7 | 1.6 | 1.5 |
| 116° | 1.7 | 1.7 | 1.7 | 1.7 | 1.6 |
| 116.5° | 1.8 | 1.8 | 1.8 | 1.8 | 1.7 |
| 117° | 1.9 | 1.9 | 1.9 | 1.9 | 1.7 |
| 117.5° | 2.0 | 1.9 | 1.9 | 1.9 | 1.8 |
| 118° | 2.0 | 1.9 | 2.0 | 1.9 | 1.8 |
| 118.5° | 2.1 | 2.0 | 2.0 | 2.0 | 1.9 |
| 119° | 2.1 | 2.1 | 2.2 | 2.0 | 2.0 |
| 119.5° | 2.2 | 2.2 | 2.2 | 2.1 | 2.1 |
| 120° | 2.3 | 2.3 | 2.2 | 2.2 | 2.2 |
| 120.5° | 2.3 | 2.2 | 2.3 | 2.3 | 2.2 |
| 121° | 2.3 | 2.3 | 2.3 | 2.3 | 2.2 |
| 121.5° | 2.6 | 2.5 | 2.4 | 2.3 | 2.3 |
| 122° | 2.4 | 2.6 | 2.5 | 2.4 | 2.5 |
| 122.5° | 2.6 | 2.6 | 2.5 | 2.5 | 2.4 |
| 123° | 2.7 | 2.7 | 2.6 | 2.6 | 2.5 |
| 123.5° | 2.7 | 2.8 | 2.6 | 2.5 | 2.6 |
| 124° | 2.7 | 2.8 | 2.7 | 2.6 | 2.6 |
| 124.5° | 2.9 | 2.8 | 2.7 | 2.7 | 2.7 |
| 125° | 3.0 | 2.9 | 2.8 | 2.8 | 2.8 |
| 125.5° | 3.0 | 2.9 | 2.8 | 2.8 | 2.8 |
| 126° | 3.0 | 2.9 | 2.8 | 2.8 | 2.8 |
| 126.5° | 2.9 | 2.9 | 3.0 | 2.8 | 2.9 |
| 127° | 3.0 | 3.0 | 2.9 | 2.8 | 2.8 |
| 127.5° | 3.1 | 3.1 | 3.0 | 2.8 | 2.8 |
| 128° | 3.1 | 2.9 | 2.9 | 2.8 | 2.9 |
| 128.5° | 3.0 | 3.0 | 2.9 | 2.8 | 2.9 |
| 129° | 2.9 | 2.9 | 2.9 | 2.8 | 2.8 |
| 129.5° | 2.9 | 2.9 | 2.9 | 2.8 | 2.8 |
| 130° | 2.9 | 2.9 | 2.8 | 2.7 | 2.8 |
| 130.5° | 3.0 | 2.9 | 2.9 | 2.6 | 2.8 |
| 131° | 2.8 | 2.8 | 2.8 | 2.7 | 2.7 |
| 131.5° | 2.9 | 2.8 | 2.7 | 2.6 | 2.7 |
| 132° | 2.8 | 2.7 | 2.7 | 2.6 | 2.6 |
| 132.5° | 2.8 | 2.7 | 2.7 | 2.6 | 2.7 |
| 133° | 2.7 | 2.6 | 2.6 | 2.5 | 2.6 |
| 133.5° | 2.8 | 2.6 | 2.5 | 2.4 | 2.6 |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-90-L930-CFR2

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 135° | 2.7 | 2.5 | 2.4 | 2.4 | 2.6 |
| 135.5° | 2.5 | 2.6 | 2.4 | 2.3 | 2.5 |
| 136° | 2.5 | 2.4 | 2.3 | 2.2 | 2.5 |
| 136.5° | 2.5 | 2.4 | 2.3 | 2.2 | 2.4 |
| 137° | 2.5 | 2.4 | 2.3 | 2.2 | 2.4 |
| 137.5° | 2.4 | 2.3 | 2.3 | 2.1 | 2.3 |
| 138° | 2.4 | 2.3 | 2.2 | 2.1 | 2.3 |
| 138.5° | 2.4 | 2.3 | 2.2 | 2.1 | 2.2 |
| 139° | 2.1 | 2.2 | 2.2 | 2.0 | 2.3 |
| 139.5° | 2.3 | 2.1 | 2.1 | 2.0 | 2.2 |
| 140° | 2.2 | 2.1 | 2.1 | 2.0 | 2.1 |
| 140.5° | 2.2 | 2.1 | 2.1 | 2.0 | 2.1 |
| 141° | 2.1 | 2.1 | 2.0 | 1.9 | 2.0 |
| 141.5° | 2.0 | 2.1 | 2.1 | 1.9 | 2.0 |
| 142° | 1.9 | 1.9 | 2.0 | 1.9 | 1.8 |
| 142.5° | 1.9 | 2.0 | 2.0 | 1.9 | 1.8 |
| 143° | 2.0 | 2.0 | 2.0 | 1.9 | 1.8 |
| 143.5° | 2.0 | 2.0 | 2.0 | 1.8 | 1.8 |
| 144° | 2.0 | 1.9 | 2.0 | 1.8 | 1.9 |
| 144.5° | 1.9 | 1.9 | 1.9 | 1.8 | 1.9 |
| 145° | 2.0 | 1.9 | 1.9 | 1.7 | 1.9 |
| 145.5° | 1.9 | 1.8 | 1.9 | 1.7 | 2.0 |
| 146° | 1.9 | 1.8 | 1.8 | 1.7 | 1.9 |
| 146.5° | 2.0 | 1.8 | 1.8 | 1.7 | 1.9 |
| 147° | 1.9 | 1.8 | 1.7 | 1.8 | 1.8 |
| 147.5° | 1.9 | 1.8 | 1.7 | 1.8 | 1.9 |
| 148° | 1.9 | 1.8 | 1.8 | 1.7 | 1.9 |
| 148.5° | 2.0 | 1.9 | 1.8 | 1.7 | 1.9 |
| 149° | 1.9 | 1.8 | 1.8 | 1.7 | 1.9 |
| 149.5° | 2.0 | 1.8 | 1.8 | 1.7 | 2.0 |
| 150° | 2.0 | 1.9 | 1.8 | 1.7 | 1.9 |
| 150.5° | 1.9 | 1.8 | 1.8 | 1.8 | 1.9 |
| 151° | 2.0 | 1.8 | 1.7 | 1.8 | 2.0 |
| 151.5° | 2.0 | 1.9 | 1.7 | 1.8 | 2.0 |
| 152° | 2.0 | 1.9 | 1.8 | 1.9 | 1.9 |
| 152.5° | 2.0 | 1.9 | 1.8 | 1.8 | 2.0 |
| 153° | 2.0 | 1.9 | 1.8 | 1.9 | 2.1 |
| 153.5° | 2.1 | 1.9 | 1.8 | 1.9 | 2.0 |
| 154° | 2.0 | 1.9 | 1.9 | 1.9 | 2.0 |
| 154.5° | 2.0 | 1.9 | 1.9 | 2.0 | 2.1 |
| 155° | 1.9 | 1.9 | 1.9 | 2.0 | 2.1 |
| 155.5° | 2.0 | 1.9 | 1.9 | 1.9 | 2.1 |
| 156° | 1.9 | 1.9 | 1.9 | 1.9 | 2.1 |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-90-L930-CFR2

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 157.5° | 1.9 | 1.8 | 1.9 | 2.0 | 2.0 |
| 158° | 2.1 | 1.9 | 1.9 | 1.9 | 2.1 |
| 158.5° | 2.0 | 1.9 | 1.8 | 1.9 | 2.0 |
| 159° | 2.0 | 1.9 | 1.9 | 1.9 | 2.1 |
| 159.5° | 2.0 | 1.9 | 1.9 | 1.9 | 2.2 |
| 160° | 2.0 | 1.9 | 1.8 | 1.9 | 2.1 |
| 160.5° | 1.9 | 1.9 | 1.9 | 2.0 | 2.1 |
| 161° | 1.9 | 1.9 | 1.9 | 2.0 | 2.1 |
| 161.5° | 2.0 | 1.9 | 1.9 | 1.9 | 2.0 |
| 162° | 1.9 | 1.9 | 1.9 | 2.0 | 2.0 |
| 162.5° | 2.0 | 2.0 | 1.9 | 1.9 | 2.0 |
| 163° | 2.0 | 1.9 | 2.0 | 2.0 | 2.0 |
| 163.5° | 2.0 | 1.9 | 2.0 | 2.0 | 2.1 |
| 164° | 1.9 | 2.0 | 1.9 | 2.1 | 2.1 |
| 164.5° | 1.9 | 2.0 | 2.0 | 2.1 | 2.1 |
| 165° | 1.9 | 1.9 | 1.9 | 2.0 | 2.1 |
| 165.5° | 1.8 | 1.9 | 1.9 | 2.2 | 2.1 |
| 166° | 2.0 | 2.0 | 1.9 | 2.1 | 2.0 |
| 166.5° | 2.0 | 1.9 | 1.9 | 2.1 | 1.9 |
| 167° | 1.9 | 2.1 | 1.9 | 2.2 | 2.1 |
| 167.5° | 2.0 | 2.1 | 2.0 | 2.2 | 2.1 |
| 168° | 2.0 | 2.0 | 1.9 | 2.2 | 2.1 |
| 168.5° | 2.0 | 2.1 | 2.0 | 2.3 | 2.1 |
| 169° | 2.1 | 2.1 | 1.9 | 2.3 | 2.1 |
| 169.5° | 2.1 | 2.1 | 2.0 | 2.3 | 2.2 |
| 170° | 2.1 | 2.1 | 2.0 | 2.3 | 2.1 |
| 170.5° | 2.1 | 2.2 | 2.0 | 2.3 | 2.2 |
| 171° | 2.1 | 2.1 | 2.1 | 2.3 | 2.3 |
| 171.5° | 2.1 | 2.1 | 2.1 | 2.4 | 2.2 |
| 172° | 2.1 | 2.1 | 2.2 | 2.4 | 2.2 |
| 172.5° | 2.2 | 2.2 | 2.2 | 2.4 | 2.2 |
| 173° | 2.1 | 2.1 | 2.2 | 2.4 | 2.3 |
| 173.5° | 2.2 | 2.2 | 2.3 | 2.3 | 2.3 |
| 174° | 2.3 | 2.3 | 2.4 | 2.4 | 2.3 |
| 174.5° | 2.3 | 2.4 | 2.4 | 2.5 | 2.4 |
| 175° | 2.4 | 2.4 | 2.4 | 2.5 | 2.3 |
| 175.5° | 2.4 | 2.4 | 2.5 | 2.4 | 2.4 |
| 176° | 2.5 | 2.5 | 2.4 | 2.4 | 2.4 |
| 176.5° | 2.6 | 2.4 | 2.5 | 2.3 | 2.4 |
| 177° | 2.5 | 2.4 | 2.3 | 2.3 | 2.4 |
| 177.5° | 2.5 | 2.4 | 2.3 | 2.2 | 2.4 |
| 178° | 2.4 | 2.3 | 2.2 | 2.2 | 2.3 |
| 178.5° | 2.3 | 2.3 | 2.2 | 2.2 | 2.2 |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-90-L930-CFR2

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|------|-----|-------|-----|-------|-----|
| 180° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







| | | | | | |
|-------|--------|--------|--------|--------|--------|
| 21.5° | 2126.7 | 2124.1 | 2113.8 | 2104.0 | 2099.8 |
| 22° | 2125.7 | 2123.1 | 2112.2 | 2102.4 | 2098.3 |



| | | | | | |
|-------|--------|--------|--------|--------|--------|
| 44° | 1903.7 | 1895.9 | 1880.4 | 1871.1 | 1864.9 |
| 44.5° | 1891.8 | 1883.5 | 1869.0 | 1859.2 | 1853.0 |



| | | | | | |
|-------|--------|--------|--------|--------|-------|
| 66.5° | 1016.8 | 1012.6 | 1004.9 | 1002.3 | 999.7 |
| 67° | 991.4 | 986.8 | 979.5 | 976.9 | 974.9 |



| | | | | | |
|-------|------|------|------|------|------|
| 89° | 15.1 | 14.9 | 14.7 | 15.5 | 15.7 |
| 89.5° | 6.7 | 6.8 | 6.6 | 7.1 | 7.0 |



| | | | | | |
|--------|-----|-----|-----|-----|-----|
| 111.5° | 1.3 | 1.1 | 1.2 | 1.2 | 1.1 |
| 112° | 1.3 | 1.2 | 1.2 | 1.2 | 1.3 |



| | | | | | |
|--------|-----|-----|-----|-----|-----|
| 134° | 2.6 | 2.6 | 2.5 | 2.5 | 2.6 |
| 134.5° | 2.7 | 2.5 | 2.5 | 2.4 | 2.5 |



| | | | | | |
|--------|-----|-----|-----|-----|-----|
| 156.5° | 2.0 | 1.9 | 1.9 | 2.0 | 2.0 |
| 157° | 2.0 | 1.9 | 1.9 | 1.9 | 2.0 |



| | | | | | |
|--------|-----|-----|-----|-----|-----|
| 179° | 2.2 | 2.2 | 2.1 | 2.1 | 2.2 |
| 179.5° | 2.0 | 2.1 | 2.0 | 2.0 | 2.1 |



(END OF REPORT)